

CLAIMS

1. A resin tile comprising a plate having an upper surface and a lower surface, a plurality of inner flanges extending downwardly from said plate, a plurality of outer flanges extending downwardly from said plate outwardly of said inner flanges, said outer flanges being of less height than said inner flanges, outer edge portions on said plate, and fastener-receiving bores in at least certain of said outer edge portions.

2. A resin tile as set forth in claim 1 wherein said plate includes corners, and wherein said fastener-receiving bores are located proximate said corners of said plate.

3. A resin tile as set forth in claim 1 wherein said outer edge portions are between said inner and outer flanges.

4. A resin tile as set forth in claim 1 wherein said plate has two pairs of opposite outer edge portions, and wherein said fastener-receiving bores are located in at least one pair of said opposite outer edge portions.

5. A resin tile as set forth in claim 4 wherein said fastener-receiving bores are also located in the other of said pairs of fastener-receiving bores.

6. A resin tile as set forth in claim 1 wherein said fastener-receiving bores are located in blocks.

7. A resin tile as set forth in claim 6 wherein said plate includes corners, and wherein said blocks are located proximate said corners of said plate.

8. A resin tile as set forth in claim 6 wherein said outer edge portions are between said inner and outer flanges, and wherein said blocks are located between said inner and outer flanges.

9. A resin tile as set forth in claim 6 wherein said plate has two pairs of opposite outer edge portions, and wherein said fastener-receiving bores are located in at least one pair of said opposite outer edge portions.

10. A resin tile as set forth in claim 9 wherein said fastener-receiving bores are also located in the other of said pairs of fastener-receiving bores.

11. A resin tile as set forth in claim 1 including enlarged bores overlying said fastener-receiving bores, and plugs for fitting into said enlarged bores.

12. A resin tile as set forth in claim 11 wherein said plate includes corners, and wherein said fastener-receiving bores and said enlarged bores are located at said corners of said plate.

13. A resin tile as set forth in claim 11 wherein said outer edge portions are between said inner and outer flanges.

14. A resin tile as set forth in claim 11 wherein said plate has two pairs of opposite outer edge portions, and wherein said fastener-receiving bores are located in at least one pair of said opposite outer edge portions.

15. A resin tile as set forth in claim 14 wherein said fastener-receiving bores are also located in the other of said pairs of fastener-receiving bores.

16. A resin tile as set forth in claim 1 wherein first ribs are molded integrally with said inner flanges and said lower surface, and wherein second ribs are molded integrally with said inner and outer flanges and said lower surface.

17. A resin tile as set forth in claim 16 wherein said first ribs are also molded integrally with each other.

18. A resin tile as set forth in claim 16 wherein said inner flanges have lower edges, and slots extending inwardly into said inner flanges from said lower edges.

19. A tile assembly including a plurality of tiles as set forth in claim 1 including a plurality of channel members each having legs and a web with said legs being for positioning alongside said inner flanges, and said outer flanges for resting on said webs.

20. A tile assembly as set forth in claim 19 wherein said inner flanges have lower edges, slots extending inwardly into said inner flanges from said lower edges, and pins extending outwardly from said legs and received in said slots.

21. A tile assembly as set forth in claim 20 wherein said first ribs are molded integrally with said inner flanges and said lower surface, and wherein said second ribs are molded integrally with said inner and outer flanges and said lower surface.

22. A tile assembly as set forth in claim 21 wherein said first ribs are also molded integrally with each other.

23. A flooring system comprising resin channels having webs and legs mounted on joists with said webs resting on the edges of the joists and said legs straddling the sides of the joists, a plurality of adjacent resin tiles each including a plate, inner flanges extending downwardly from said plates and being located adjacent to said legs of said channels, outer flanges located outwardly of said inner flanges and resting on said webs of said channels, outer edge portions on each of said tiles, fastener-receiving bores in said outer edge portions which overlies said joists, and fasteners extending through said fastener-receiving bores into said joists.

24. A resin tile as set forth in claim 23 including enlarged bores overlying said fastener-receiving bores, and plugs for fitting into said enlarged bores.

25. A resin tile as set forth in claim 24 wherein said plate has two pairs of opposite outer edge portions, and wherein said fastener-receiving bores are located in at least one pair of said opposite outer edge portions.

26. A resin tile as set forth in claim 24 wherein said fastener-receiving bores are also located in the other of said pairs of fastener-receiving bores.

27. A resin tile as set forth in claim 26 including enlarged bores overlying said fastener-receiving bores, and plugs for fitting into said enlarged bores.

28. A flooring system comprising a plurality of spaced joists each having an edge and sides, a plurality of adjacent resin tiles each including a plate, inner flanges extending downwardly from each of said plates and being located adjacent to said sides of adjacent joists, outer flanges located outwardly of said inner flanges and resting on said edges of adjacent joists, outer edge portions on each of said tiles overlying adjacent joists, fastener-receiving bores in said outer edge portions, and fasteners extending through said fastener-receiving bores into said joists.

29. A flooring system as set forth in claim 28 wherein said resin tiles have corners, and wherein said fastener-receiving bores are located at said corners.

30. A flooring system as set forth in claim 28 wherein said resin tiles have corners, and wherein said fastener-receiving bores are located in said outer edge portions remote from said corners.

31. A resin tile comprising a plate having an upper surface and a lower surface, a plurality of inner flanges extending downwardly from said plate, a plurality of outer flanges extending downwardly from said plate outwardly of said inner flanges, and said outer flanges being of less height than said inner flanges.